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- present were
 - a) Dr. (fnu) Panning, Central Office for Research and Technique, State Planning Commission.
 - b) Lr. (fnu) Petersen, SAG Farbenfabrik, Wolfen,
 - c) Dr. (fnu) Leibnitz, director, Institute for Chemical Technology, Leipzig University, and chief of VEB Plasta, Leipzig.
 - d) Directors of chemical institutes of various East Zone universities.
 - At the meeting, the following statements on DDR chemical production were made:
- Sulfuric Acid: If the planned production of SO3 is to be reached, the DDR will have to increase its production capacity by 275,000 tons per year by 2. 1955. Each year 95,000 tons of pyrites can be mined, which yields about 72,000 tons of sulfuric acid. From Bulgaria 200,000 tons of pyrites will be imported annually yielding about 150,000 tons of SO3. At the end of the Five Year Plan, the government hopes to be able to produce 500,000 tons annually. This would correspond to 170 to 180 per cent of the 1938 production in the area now included in the DDR. In order to meet the goal, the Ministry for Neavy Industry, in cooperation with the State Planning Commission, plans to develop new methods for the production of SO3 from unexploited minerals in the DDR, particularly gypsum and magnesium. It will also be necessary to produce in the future sulfuric acid from Kieserite, a mixture composed mainly of LoSO1 and MoCl2. A pilot plant near Oranienburg is now producing 35 tons of SO3 per month, using Kieserite. A contact installation which uses Kieserite according to the Kammerverfahren is being constructed in Minchritz.
- 3. Mitric Acid and Other Inorganic Chemicals:
 - a) By 1955, production of HNO3 is to be 500,000 tons annually.

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- b) In 1953 a hydrogen peroxi. plant will be constructed at an unspecified place in the DDR.*
- c) Production of phosphorous has begun in Piesteritz and is to be increased.
- Aluminum and Majnesium: Fifty thousand tons of aluminum and 150,000 tons of magnesium (For the alloying industry) are to be produced annually by 1955 in the DDR. Since it is considered impossible to import raw materials for aluminum production indefinitely, in the future alumina will be worked with chloric acid. But first alumina production must be increased and the production methods developed. Alumina production at the Lauta works is now 30,000 tons a year; this is to be increased to 50,000 tons in 1952.

5. Al'calious natter:

- a) By 1955 MaDN production is to be increased to 400,000 tons annually.
- b) Production of calcinized soda (anhydrous MagCO3) is to be increased to Cho.,000 tons a year by 1955. In order to reach a capacity of 1,200 tons per year, the Ministry for Meany Industry plans to rebuild the soda production installations of the Solvay works in Bernburg, against the advice of Prof. Dr. Bortsch. Bertsch believes that soda production should be resumed on a large scale at the Leuna works, as a bywroduct of ammonia production, using the large quantities of CO2 there. For unknown reasons, Bertsch's advice has not been heeded.
- c) Sodium metal production has begun recently in Granienburg. A small quantity is also produced in litterfeld, but it produces complaints since it contains excessive amounts of potassium, is very dangerous, and has caused a number of accidents. In both plants, production is achieved electrolytically from MaONLER
- d) Barium salts, not now being produced, will be made by Garungschemie (formerly Zuckerraffinerie), Lessau, in 1952.
- 6. Organic Chan cals: The Five Year Plan requires that lignite, the main base product for organic chemicals, be produced at an increasing rate.
 - a) The 1951 production of 7,000 tons of pure phenol is to be increased to 20,000 tons by 1955, mainly by improving methods of obtaining it from distillery waste water (Schwelerei). The synthesis of phenol from benzol is not considered possible, since benzol is even more scarce in the DDR than phenol.
 - b) By 1955, between 30,000 and 50,000 tons of beamol will be needed each year.
 - c) By 1955, 20,000 tons of toluene will be needed annually, mostly for the production of torylene fiber. VEB Plasta, Leipzin has developed on laboratory scale a mothod of producing toluene from orthocreosol and zinc, yielding a by-product of high-quality zinc oxide. The zinc necessary, however, for large scale production would have to be imported.
 - d) Considerable oil deposits have been discovered in the DDR. One is located near Langensalza, in the southern Harz mountains, where oil has been found under the potassium deposits. The yield is not known, although the deposits have been tapped. Discovery of the oil "makes it possible to consider the production of acetylene from methane in the future." A trial installation (Versuchsanlage) for this is working in Louna; it is operating according to the Hills method.***
 - e) The 2,000 to 3,000 tons of aniline needed in the DDR annually has to be imported. A number of SAG's and other works have promised to produce it, but have not done so as yet.
 - f) 1951 production of phthalic anhydride was 6,000 tons. An annual production of 10,000 tons is planned by 1955.

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g' Following are other requirements for production by 1955:

Maleine acid, 6,000 tens annually Adipine acid, 6,000 tens annually Pimeline acid, 2,000 tens annually.

Since phenol supplies are insufficient, furfurol phemistry on a pentose basis must be developed as a starting point in the projection of the above dicarbonic acids. 1951 production at <u>Garungsche ale</u> was 800 tons of furfurol, made by wood hydrolysis. Furfurol could be produced from locklenburg peat, but the yield of one per cent is not economically feasible. Until 1955, 9,000 tons of 100 per cent synthetic fiber (voll synthetisch) are to be produced; these will mainly be perlon, nylon, terylene and orlon.

- h) Clycerine can only be produced according to the Reyne synthesis of acetylene and formaldehyde.*** Preliminary research (Vorarbeiten) is carried out at the Buna works, Schkopau.
- i) Improvement of projection of fatty acids through paraffin exidation and synthesis of fatty acids from polyenales are two other problems of chemical research in the DDR Five Year Plan.

Comment: 11202 is already being produced at the former IC works in Ellonburg. It is about a 30% concentration, and, there-	
fore, not usable as an oxygen carrier for rockets.	· •
Comment:	
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Small quan-	
titles of calcium metal have been supplied to chemical institutes and laboratories by Bitterfeld without intersuption, but it is not	
known whether these come from old supplies or new production.	
Comment: Some of the acetylene produced at Leana goes to the Buna works in Schkopau, where butadiene is produced by the	50X1-HUM
Reppe method, from acetylene on a pilot plant scale.	
Comment: CH = CH \(\frac{CH}{20} \) IIC = C-CH2OH (Propargyl alcohol) \(\frac{H}{2} \) II2> !I2C = CH - CH2OH (Allyl alcohol) \(\frac{H}{2} \) !IOCL	50X1-HUM
"IDCH2 - CH - CH2 - OH - HOCH2 - CHO! - CH2OH	
çı.	

(Glycerine). Successful conclusion of the Schkopau research would be extremely important, because the DIR cannot afford to produce glycerine from fats which are vitally needed in the food industry.